
Sub-1GHz RF USB dongle

FACT SHEET



FEATURES

- 868 MHz SRD band
- Integrated PCB antenna
- Windows, Linux and MacOS X support
- Simple control with AT command set
- USB 2.0 interface
- CE (R&TTE) certified
- RoHS compliant
- Up to +11 dBm output power
- Up to 500 kbps data rate

APPLICATIONS

- Wireless sensors networks
- Battery-powered wireless devices
- Point-to-point serial data link
- Home automation
- Industrial monitoring and control
- Alarm systems
- Wireless metering, Wireless M-Bus

DESCRIPTION

The XLN-RF-868-USB is a RF interface dongle operating in the 868 MHz SRD band. Thanks to its small size, its integrated PCB antenna and its easy-to-use interface, adding sub-1GHz RF connectivity to your PC, Mac, Raspberry Pi, Arduino, BeagleBone, etc. is easier than ever.

Drivers are available for all recent versions of Microsoft Windows (32 and 64 bits) and MacOS X. Linux is supported out of the box.

SPECIFICATIONS

RF band	868 MHz (SRD860)
Supported RF modulations	ASK, 2-FSK, GFSK, GMSK, MSK, OOK
Data rate	1 to 500 kb/s
Rx sensitivity	-118 dBm (2-FSK at 1.2 kb/s), -95 dBm (MSK at 250 kb/s)
Tx output power	-30 to +11 dBm
Antenna	Integrated PCB antenna
Encryption	128-bit AES (hardware accelerated)
Interface	USB 2.0
RF transceiver	SPIRIT1 (ST Microelectronics)
OS support	Windows 7, Windows Server 2008 R2 and 2012 R2, Windows 8, 8.1 Linux (kernel 3.2.14 and above) MacOS X v10.8 and above
RF standards compatibility	EN13757-4 (Wireless M-BUS)
Dimensions	24 x 67 x 9 mm
Operating temperature	-30 to +85 °C
Certifications	CE (R&TTE, EN 300 220)
Environmental compliance	RoHS

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